

Fig.1

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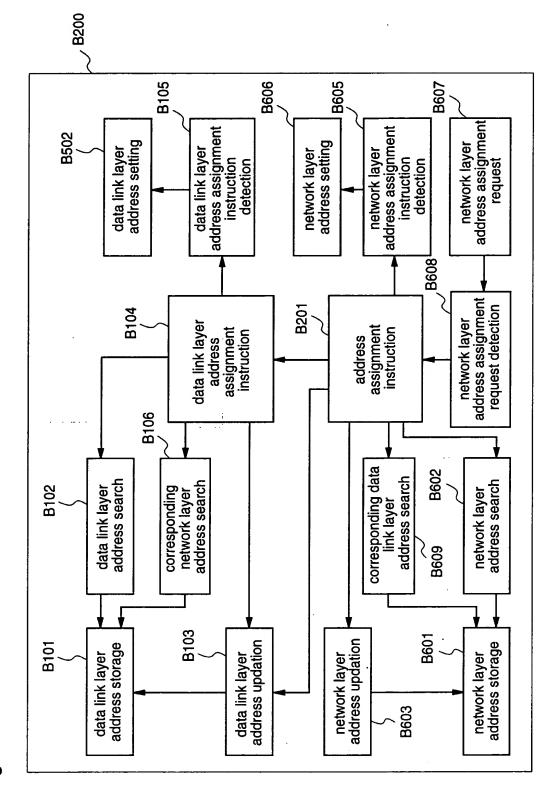


Fig.2

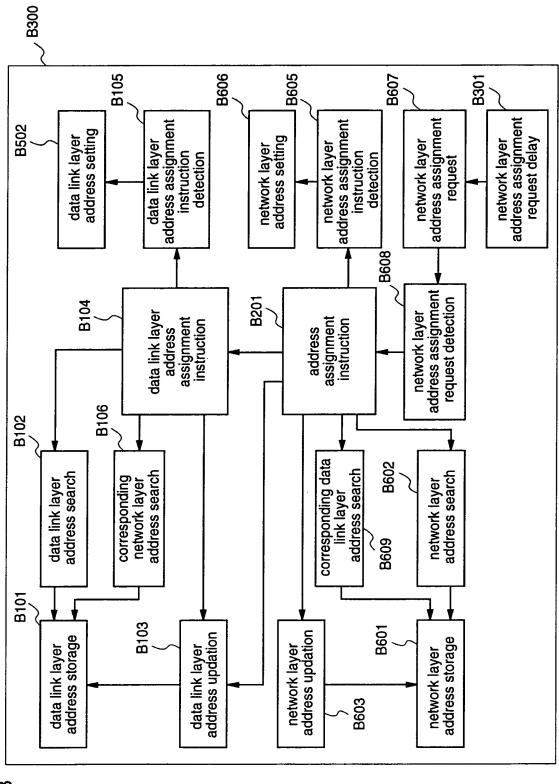


Fig.3

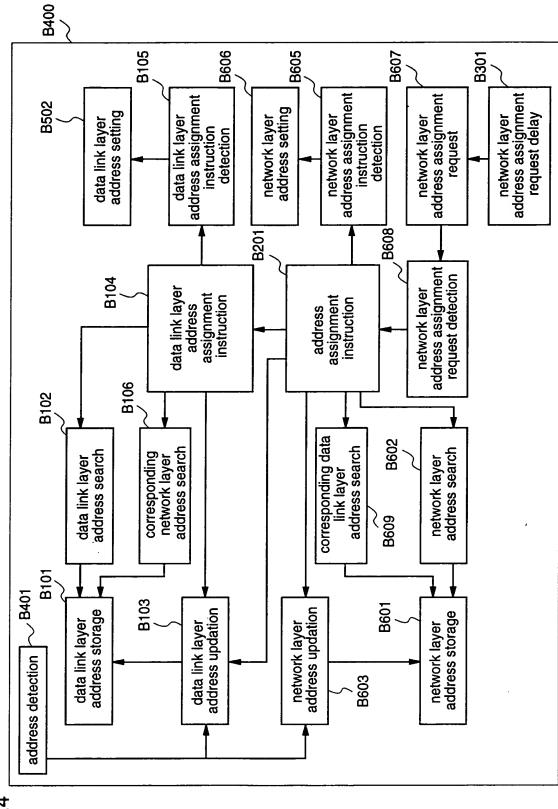
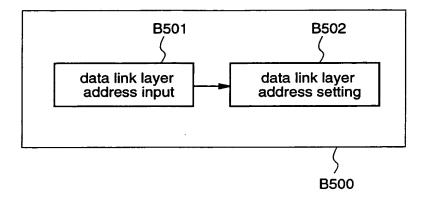


Fig.4

Fig.5 Prior Art



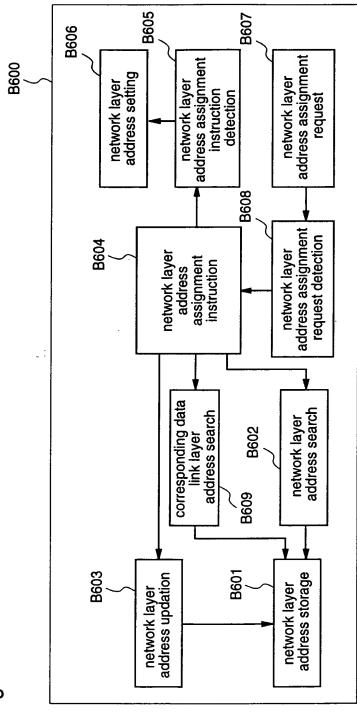


Fig.6 Prior Art

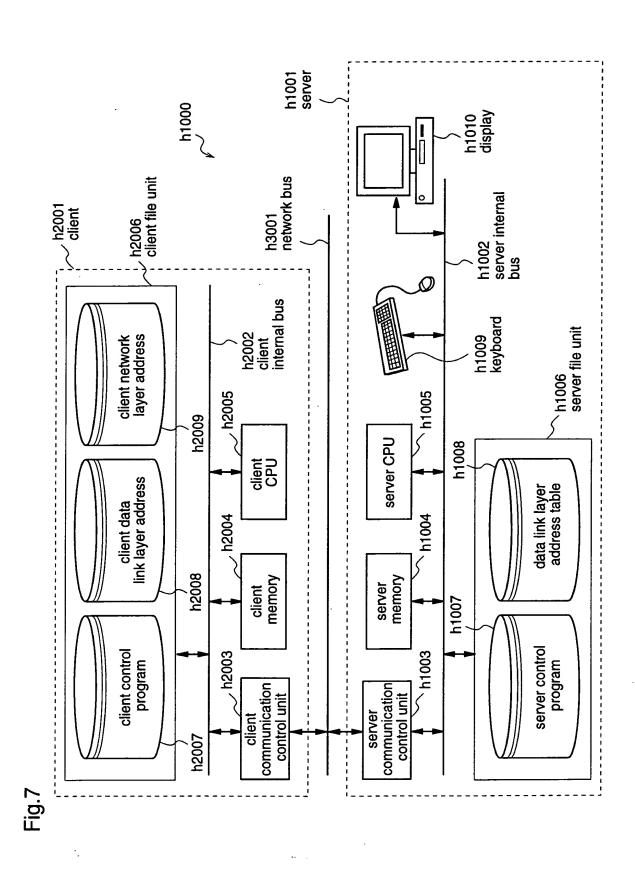


Fig.8

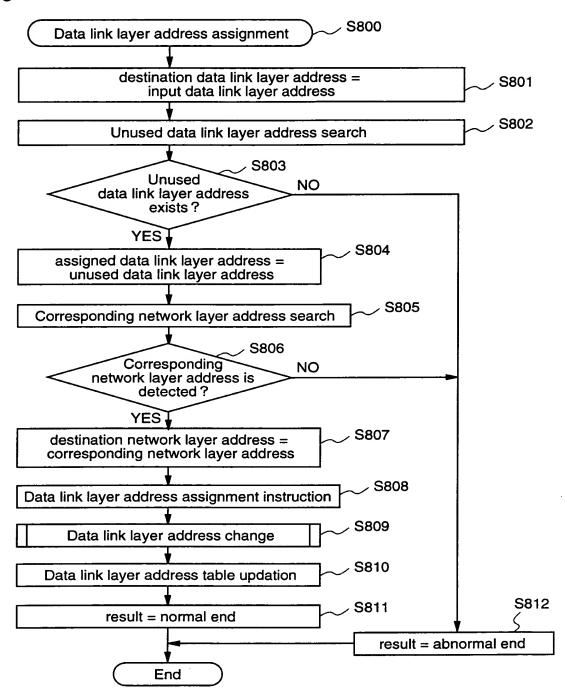


Fig.9

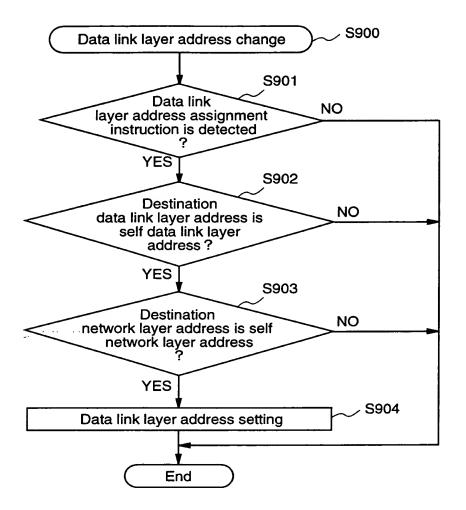


Fig.10(A)

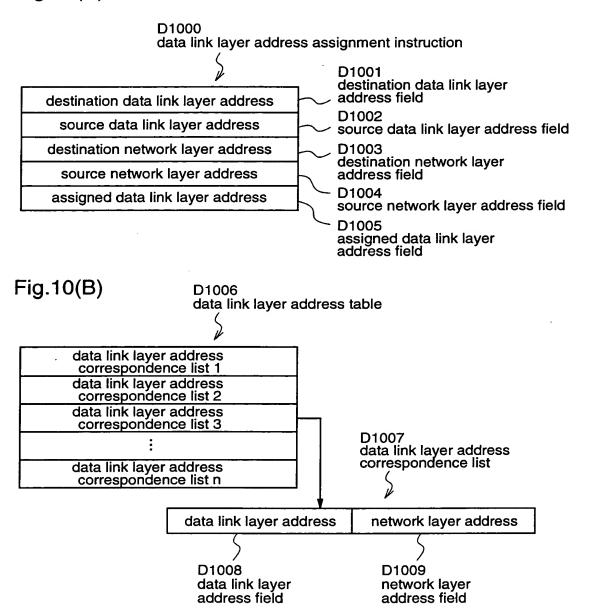


Fig.11

(a1) address state of server

| network layer | data link | |
|---------------|---------------|--|
| address | layer address | |
| NA1 | DA1 | |

(b1) address state of client 1

| network layer | data link |
|---------------|---------------|
| address | layer address |
| NA2 | DA2 |

(d1) data link layer address table

| data link layer address | network layer address |
|----------------------------|--------------------------|
| DA1 | NA1 |
| DA2 | NA2 |
| DA3 | NULL |
| DA4 | NULL |

(a2) address state of server

| network layer | data link | |
|---------------|---------------|--|
| address | layer address | |
| NA1 | DA1 | |

(b2) address state of client 1

| network layer | data link |
|---------------|---------------|
| address | layer address |
| NA2 | DA3 |

(d2) data link layer address table

| data link layer address | network layer address |
|----------------------------|--------------------------|
| DA1 | NA1 |
| DA2 | NULL |
| DA3 | NA2 |
| DA4 | NULL |

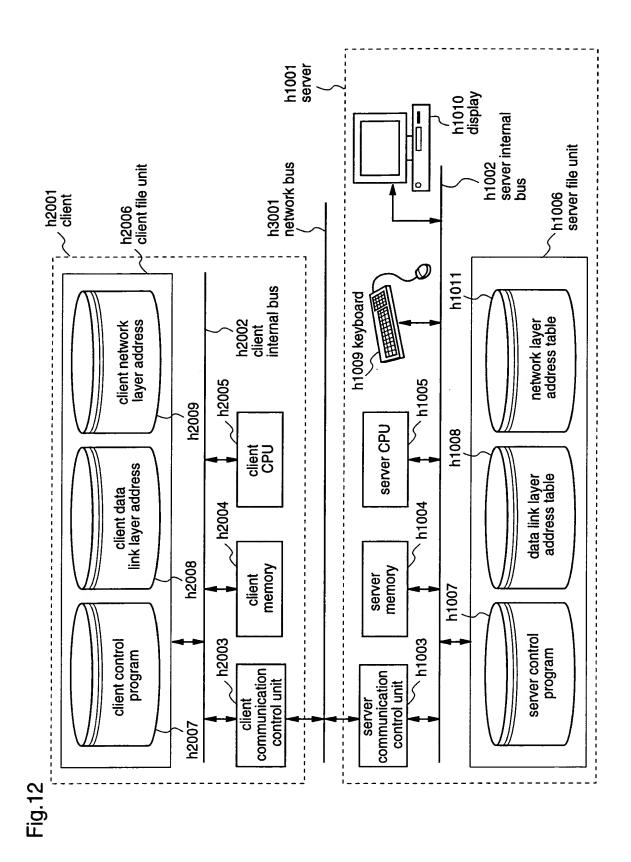


Fig.13

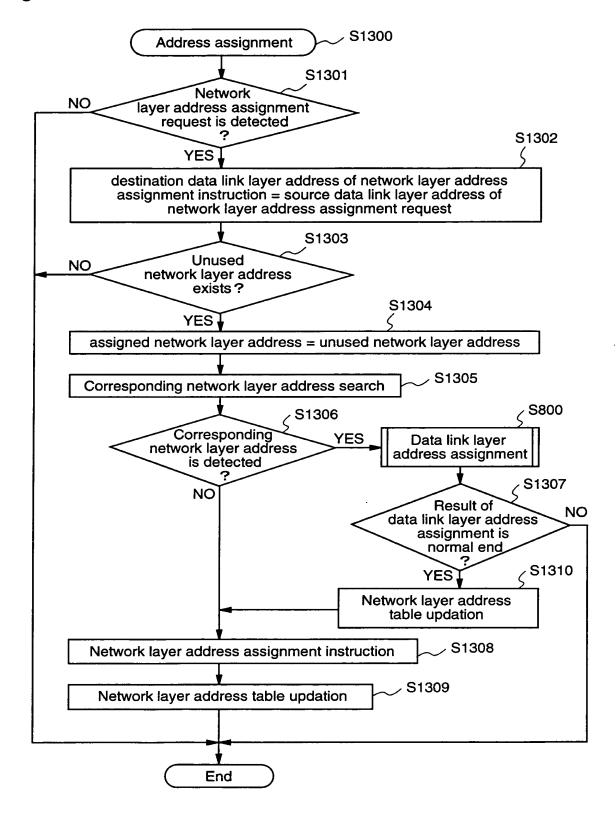
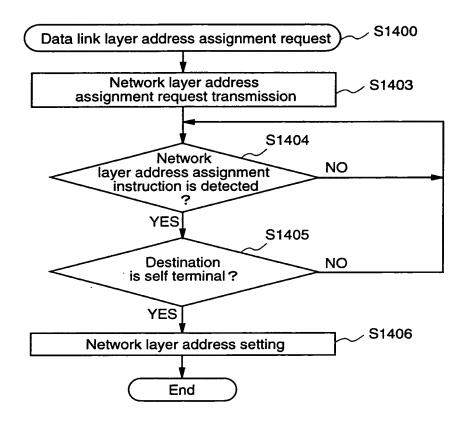


Fig.14



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Fig.15 (A)

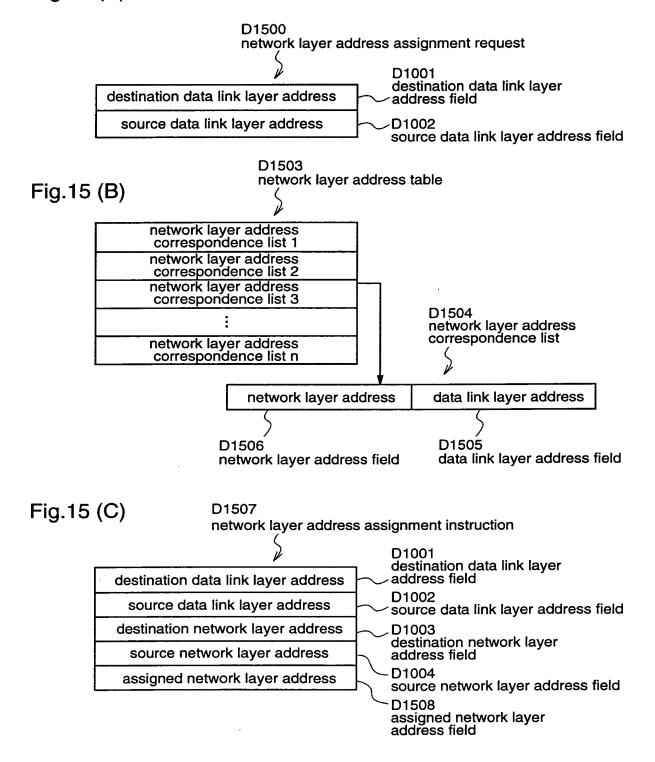


Fig.16

(a1)address state of server

| data link layer address | DA1 |
|----------------------------|-----|
| network layer address | NA1 |

(b1)address state of client 1

| address address NA2 DA2 |
|-------------------------|
|-------------------------|

(c1)address state of client 2

| data link layer address | DA2 | |
|----------------------------|------|--|
| network layer address | NOLL | |

(d1)data link layer address table

| network layer address | NA1 | NA2 | NOLL | NOLL |
|----------------------------|-----|-----|------|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

(e1)network layer address table

| address table | data link layer address | DA1 | DA2 | NOLL | NALL |
|------------------------------------|----------------------------|-----|-----|------|------|
| (e i)iletwork layer address table | network layer address | NA1 | NA2 | NA3 | NA4 |

(a2)address state of server

| yer data link layer | DA1 |
|--------------------------|-----|
| network layer address | NA1 |

(b2)address state of client 1

| data link layer address | DA3 |
|----------------------------|-----|
| network layer address | NA2 |

(c2)address state of client 2

| DA2 | NOLL |
|----------------------------|--------------------------|
| data link layer address | network layer address |

(d2)data link layer address table

| network layer address | NA1 | NOLL | NA2 | NOLL |
|----------------------------|-----|------|-----|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

(e2)network layer address table

| addiess lable | data link layer address | DA1 | DA3 | NOLL | NULL |
|----------------------------------|----------------------------|-----|-----|------|------|
| (ez/iletwoln layel audiess table | network layer address | NA1 | NA2 | NA3 | NA4 |

(a3)address state of server

| data link layer address | DA1 |
|----------------------------|-----|
| network layer address | NA1 |

(b3)address state of client 1

| data link layer address | DA3 |
|----------------------------|-----|
| network layer address | NA2 |

(c3)address state of client 2

| r address table | (d3)data link layer address table |
|----------------------------|-----------------------------------|
| DA2 | NA3 |
| data link layer address | network layer address |

| network layer address | NA1 | NA3 | NA2 | NOLL |
|----------------------------|-----|-----|-----|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

(e3)network layer address table

| | data link layer address | DA1 | DA3 | DA2 | FIN |
|-----|----------------------------|-----|-----|-----|-----|
| , , | network layer address | NA1 | NA2 | NA3 | NA4 |

Fig.17

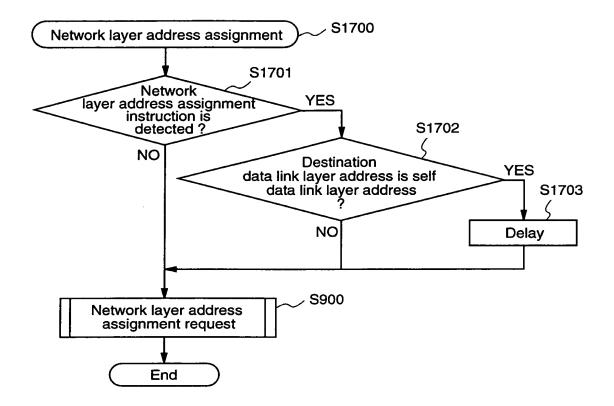


Fig.18

| (a1)address state of server | te of server | (a2)address state of server | e of server | (a3)address state of server | e of server | (a4)address state of server | e of server |
|--------------------------------------|---------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------|--------------------------------------|----------------------------|
| network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address |
| NA1 | DA1 | NA1 | DA1 | NA1 | DA1 | NA1 | DA1 |
| (b1)address state of client 1 | te of client 1 | (b2)address state of client 1 | e of client 1 | (b3)address state of client 1 | e of client 1 | (b4)address state of client 1 | e of client 1 |
| network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address |
| NOLL | DA2 | NA2 | DA2 | NA2 | DA3 | NA2 | DA3 |
| (c1)address state of client 2 | te of client 2 | (c2)address state of client 2 | e of client 2 | (c3)address state of client 2 | e of client 2 | (c4)address state of client 2 | e of client 2 |
| network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address |
| NULL | DA2 | NOLL | DA2 | NOLL | DA2 | NA3 | DA2 |
| (d1)data link layer address table | er ile | (d2)data link layer address table | er le | (d3)data link layer address table | er le | (d4)data link layer address table | er le |
| data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address |
| DA1 | NA1 | DA1 | NA1 | DA1 | NA1 | DA1 | NA1 |
| DA2 | NULL | DA2 | NA2 | DA2 | NULL | DA2 | NA3 |
| DA3 | NULL | DA3 | NOLL | DA3 | NA2 | DA3 | NA2 |
| DA4 | NULL | DA4 | NULL | DA4 | NULL | DA4 | NOLL |
| (e1)network laye | (e1)network layer address table | (e2)network layer address table | er address table | (e3)network lay | (e3)network layer address table | (e4)network layer address table | er address table |
| network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address | network layer address | data link layer address |
| NA1 | DA1 | NA1 | DA1 | NA1 | DA1 | NA1 | DA1 |
| NA2 | NULL | NA2 | DA2 | NA2 | DA3 | NA2 | DA3 |
| NA3 | NULL | NA3 | NULL | NA3 | NULL | NA3 | DA2 |
| NA4 | NULL | NA4 | NOLL | NA4 | NULL | NA4 | NULL |

Fig.19

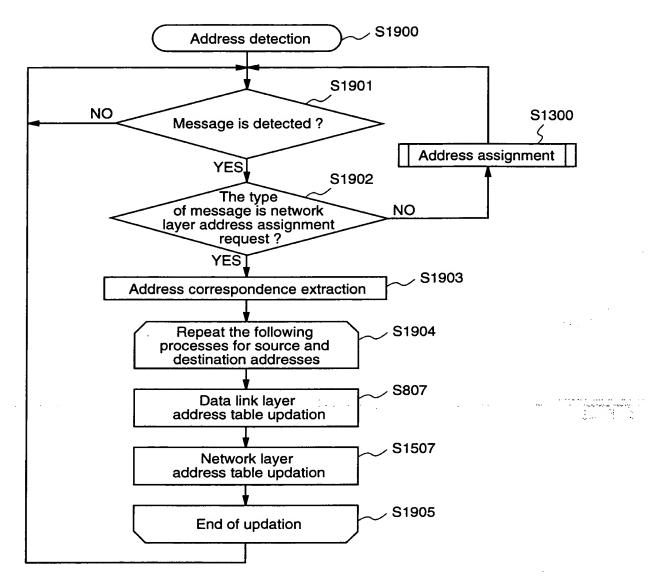


Fig.20

(a1)address state of server

| data link layer address | DA1 |
|----------------------------|-----|
| network layer address | NA1 |

(b1)address state of client 1

| data link layer address | DA3 |
|----------------------------|-----|
| network layer address | NA3 |

(c1)address state of client 2

| data link layer address | DA3 |
|----------------------------|-----|
| network layer address | NA2 |

(d1)data link layer address table

| network layer address | NA1 | NA2 | NOLL | NOFF |
|----------------------------|-----|-----|------|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

| address table | data link layer address | DA1 | DA2 | NOLL | NOLL |
|---------------------------------|----------------------------|-----|-----|------|------|
| (e1)network layer address table | network layer address | NA1 | NA2 | NA3 | NA4 |

(a2)address state of server

| data link layer address | DA1 |
|----------------------------|-----|
| network layer address | NA1 |

(b2)address state of client 1

| address | DA3 |
|---------|-----|
| address | NA3 |

(c2)address state of client 2

| data link laye address | DA3 |
|---------------------------|-----|
| network layer address | NA2 |

(d2)data link layer address table

| network layer address | NA1 | NA2 | NA3 | IION |
|----------------------------|-----|-----|-----|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

(e2)network laver address table

| addless lable | data link layer address | DA1 | DA2 | DA3 | NOLL |
|---------------------------------|----------------------------|-----|-----|-----|------|
| ezilletwoin layer address table | network layer address | NA1 | NA2 | NA3 | NA4 |

(a3)address state of server

| network layer | data link layer |
|---------------|-----------------|
| address | address |
| NA1 | DA1 |

(b3)address state of client 1

| network layer | data link layer |
|---------------|-----------------|
| address | address |
| NA3 | DA3 |

(c3)address state of client 2

| network layer | data link layer |
|---------------|-----------------|
| address | address |
| NA2 | DA3 |

(d3)data link layer address table

| network layer address | NA1 | NOLL | NA2 | NOLL |
|----------------------------|-----|------|-----|------|
| data link layer address | DA1 | DA2 | DA3 | DA4 |

(e3)network layer address table

| | data link layer address | DA1 | DA3 | NOLL | TION | |
|-----------------------|----------------------------|-----|-----|------|------|--|
| Sizes 000 mms in (m) | network layer address | NA1 | NA2 | NA3 | NA4 | |

Fig.21 Prior Art

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